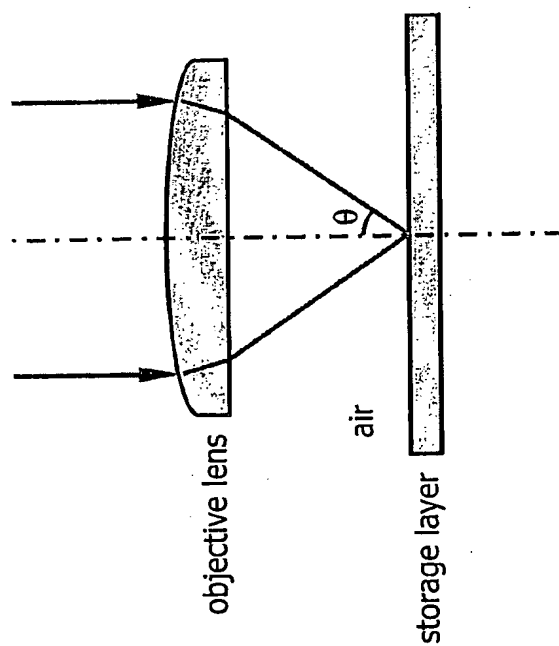


air-incident

$$NA = \sin \theta$$

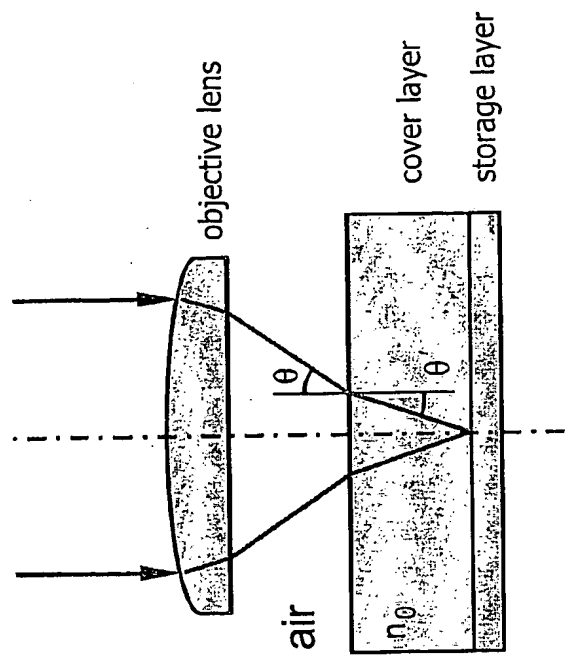
resolving power: $\lambda/(2NA)$



with cover layer: $\lambda' = \lambda/n_0$

$$NA' = \sin \theta' = \sin \theta / n_0 = NA / n_0$$

resolving power: $\lambda'/(2NA') = \lambda/(2NA)$



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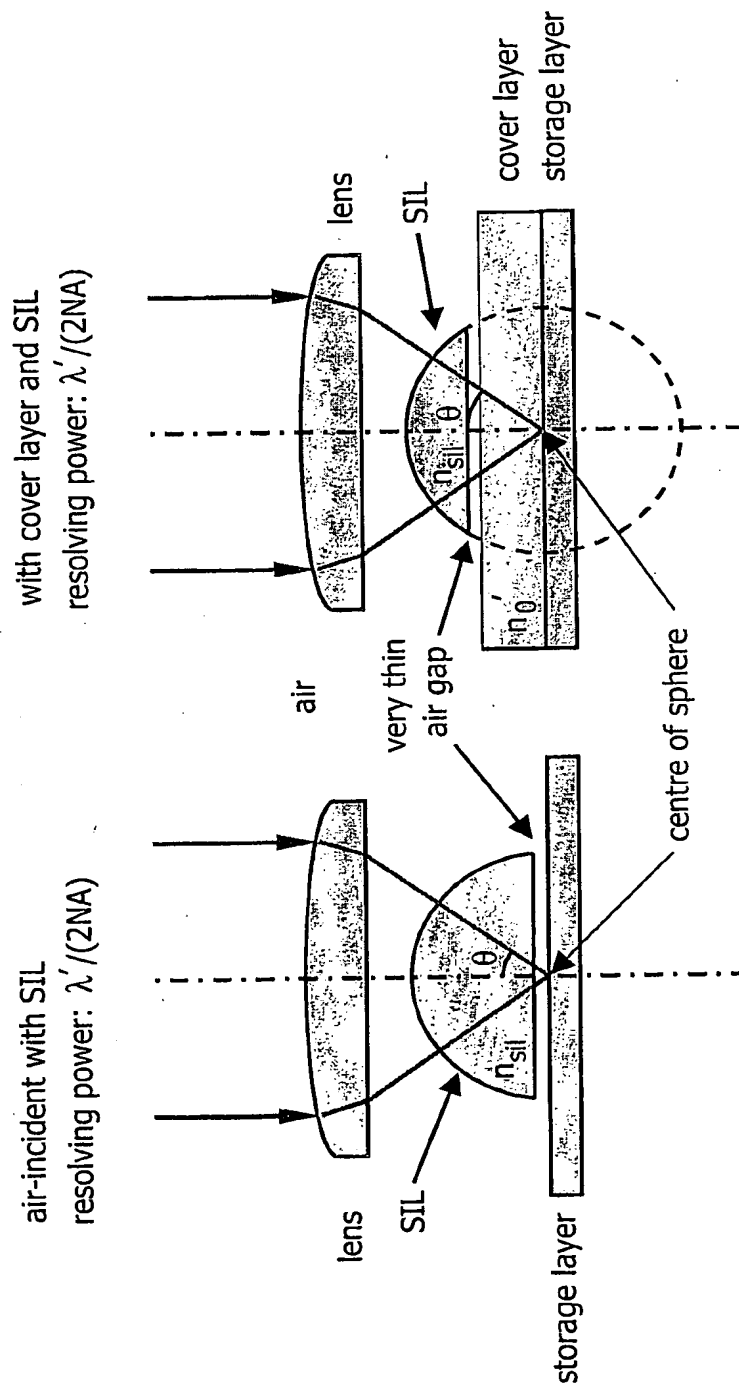


FIG.2B

FIG.2A

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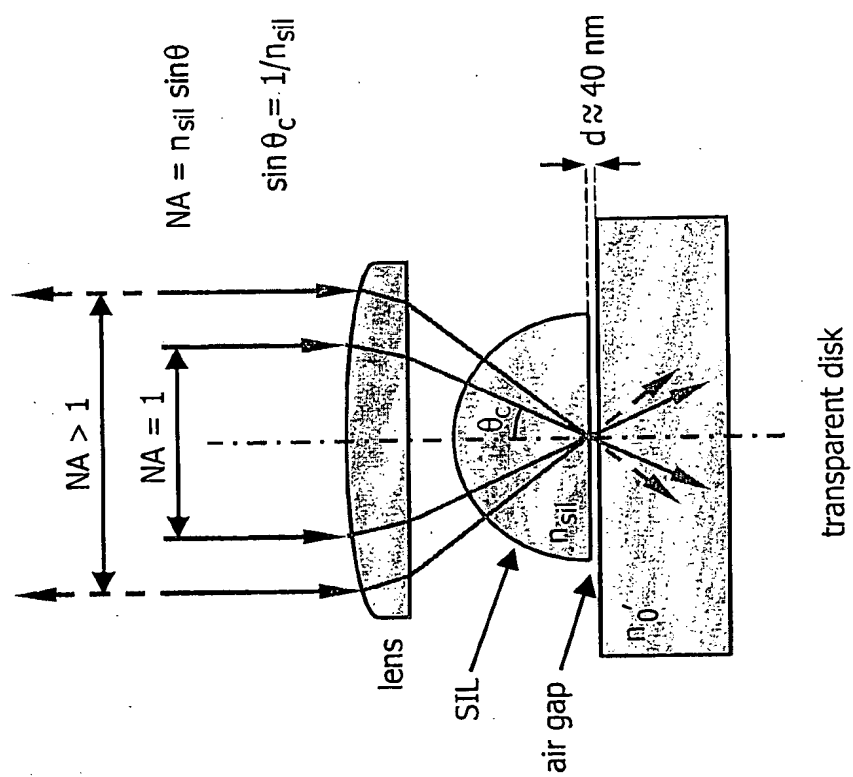


FIG.3

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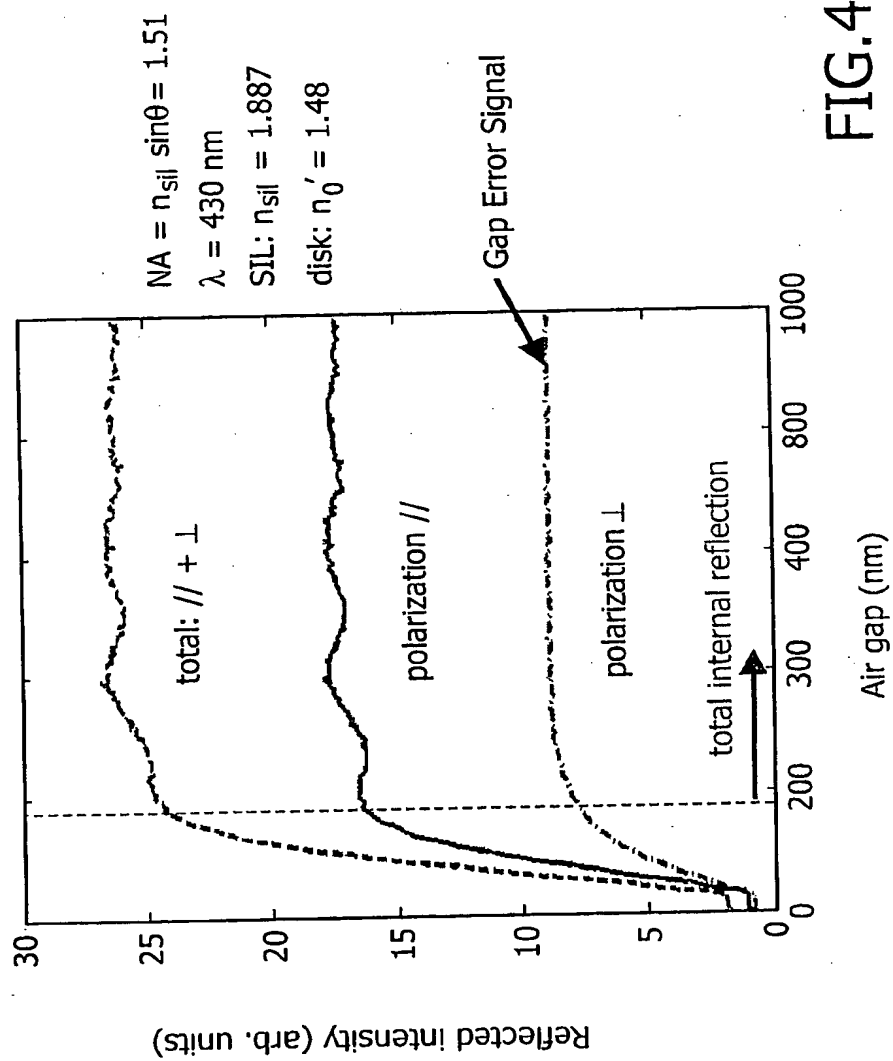


FIG.4

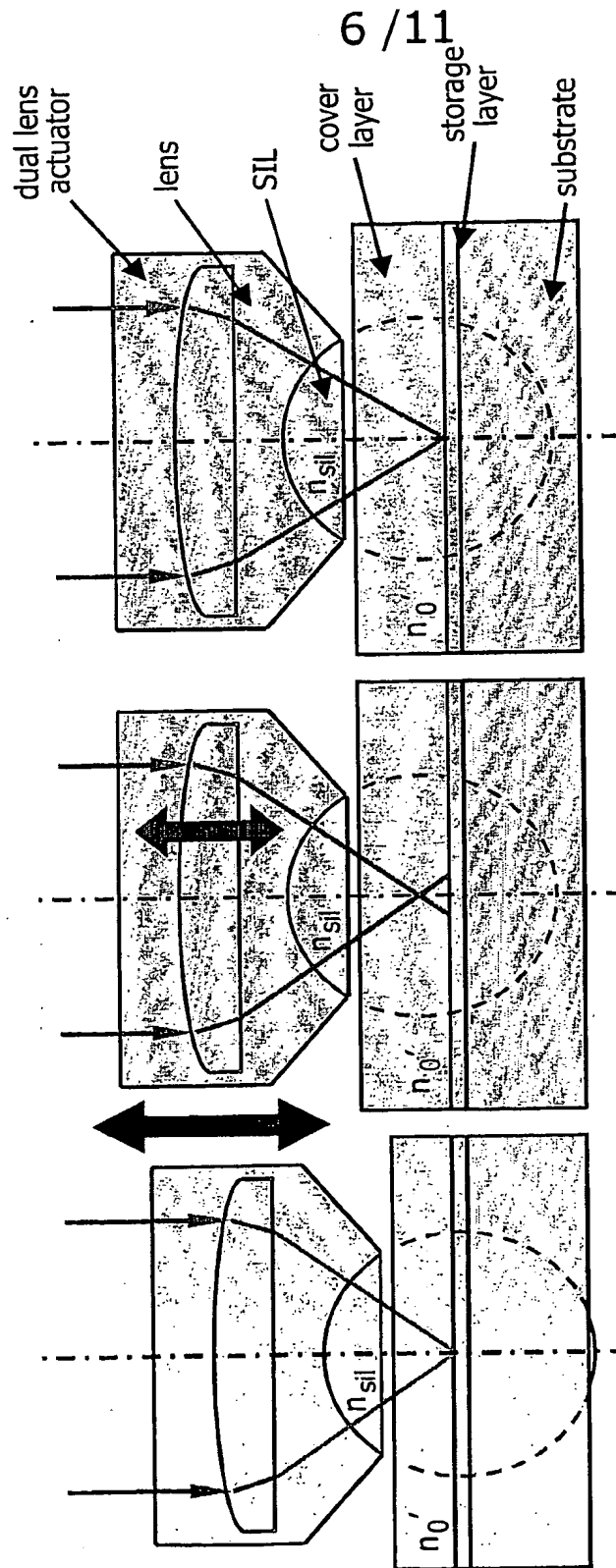


FIG. 6C

FIG. 6B

FIG. 6A

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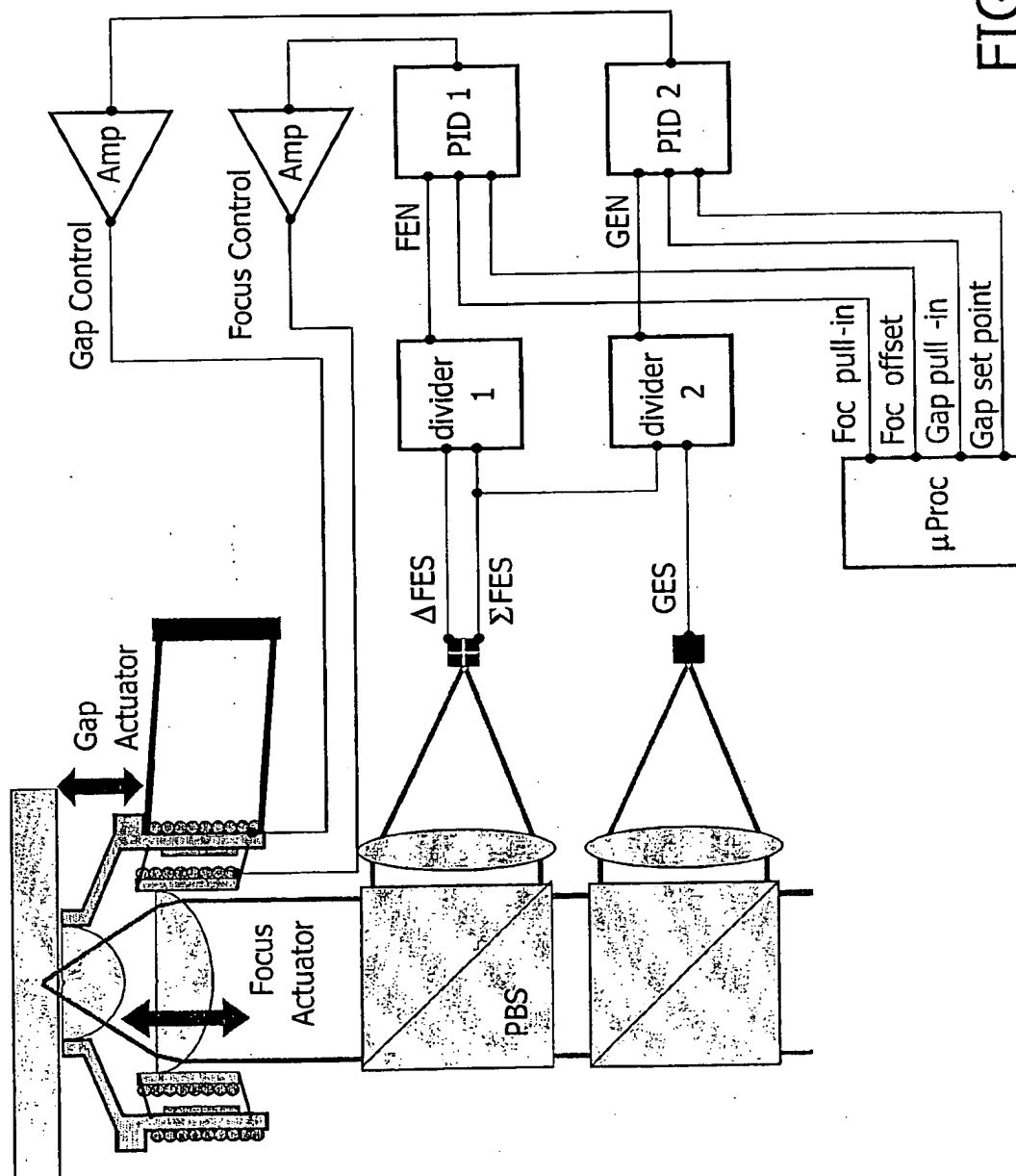


FIG.7

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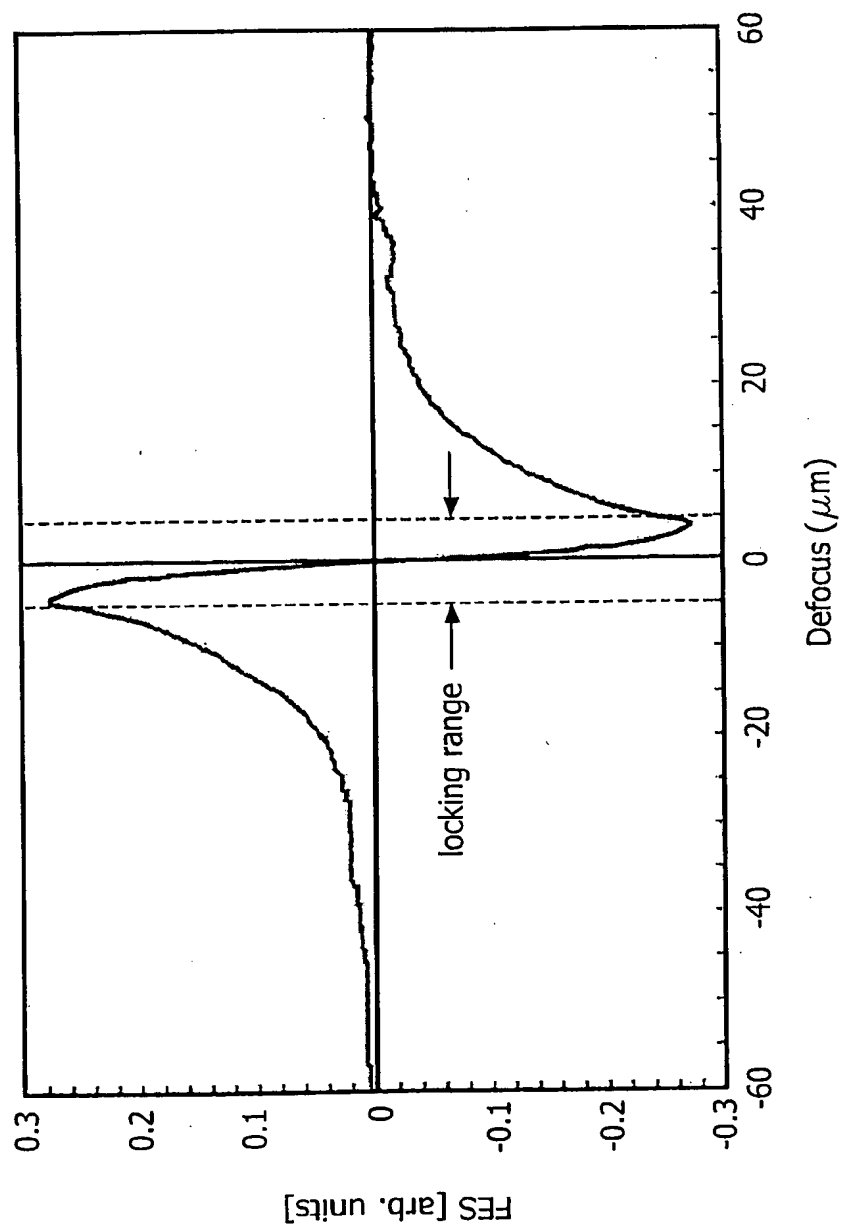


FIG.8

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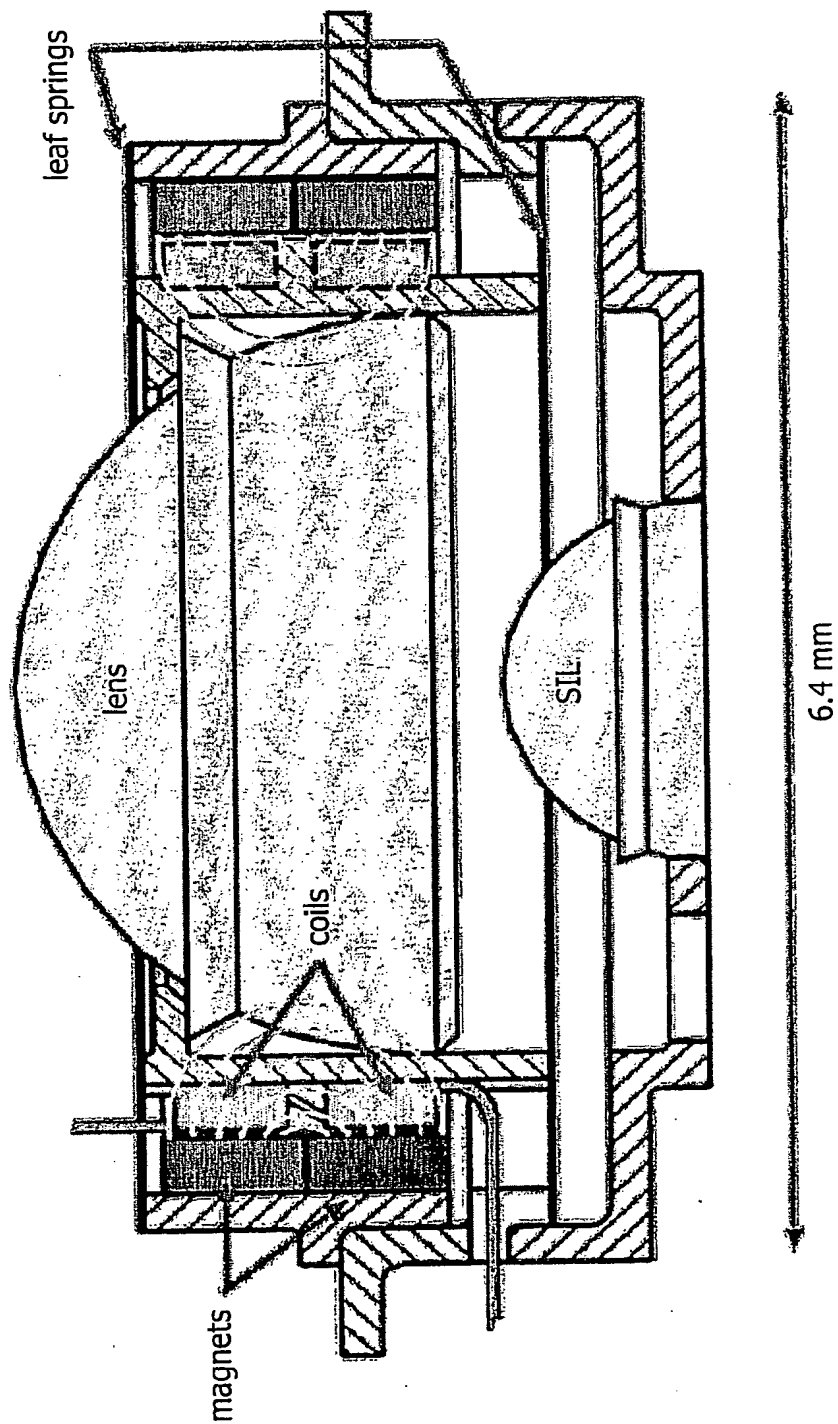


FIG.9

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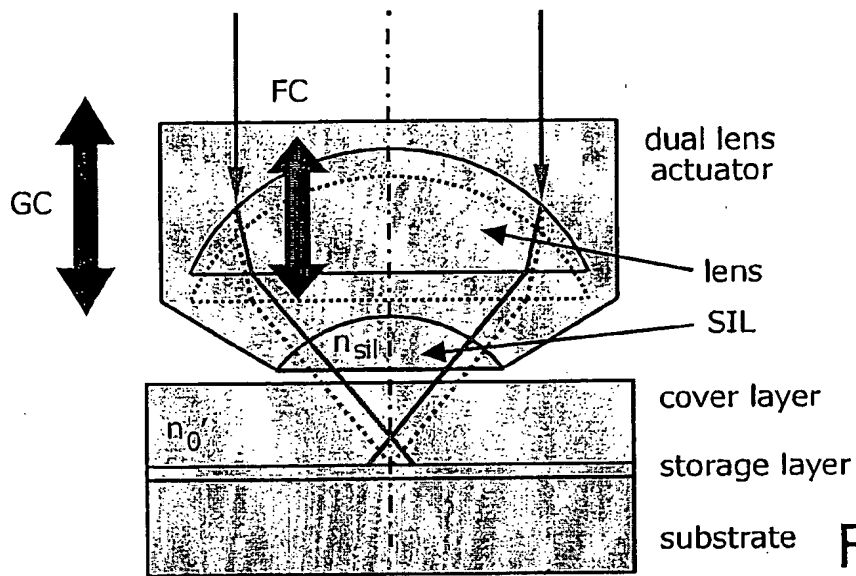


FIG.10

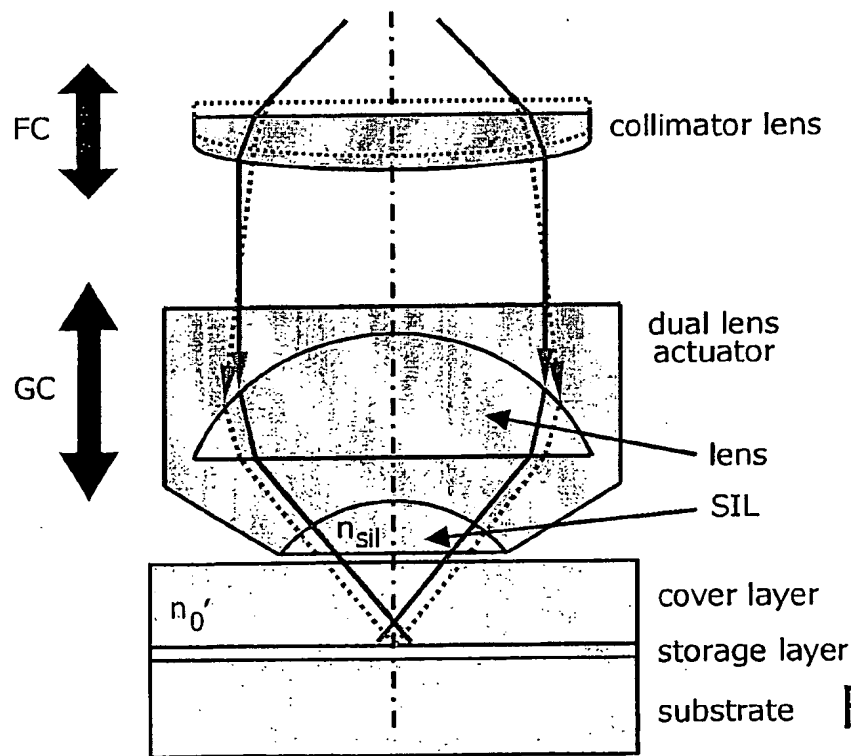


FIG.11

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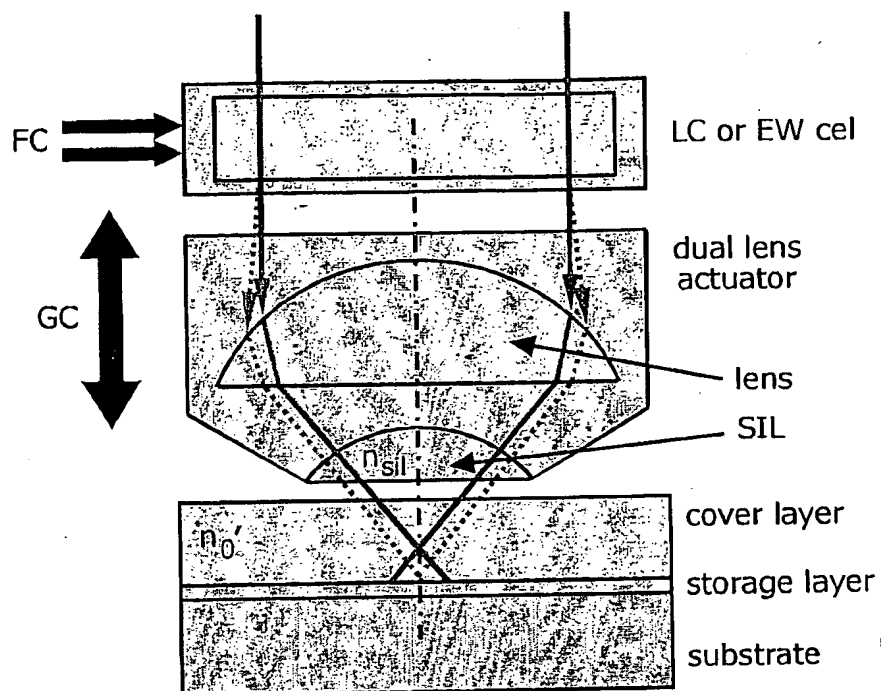


FIG.12

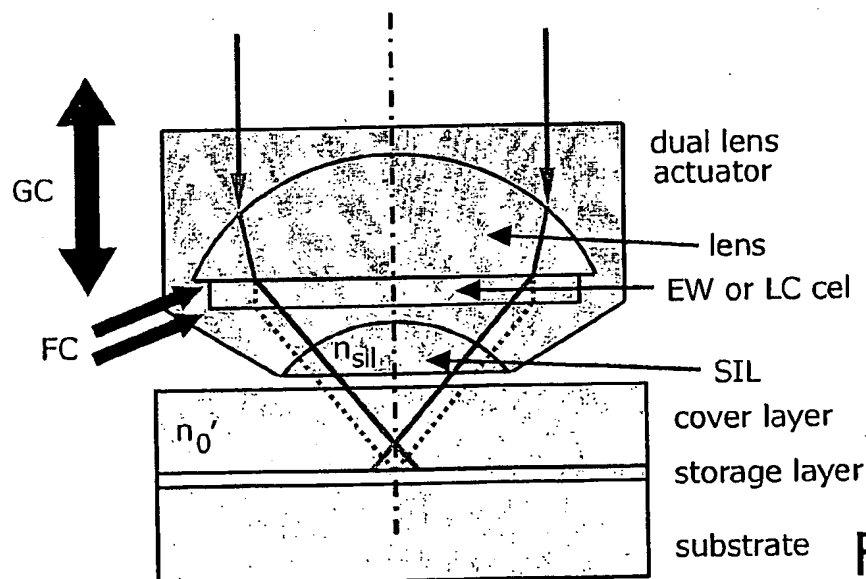


FIG.13